

Claims

[c1] What is claimed is:

1.A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following step:
when power is provided to the optical disk drive,moving the pickup head module toward a spindle motor according to a gradually decreasing speed curve;
wherein the position where the pickup head stops is the initial position.

[c2] 2.The method of claim 1 wherein the maximum distance the pickup head is able to move according to the speed curve is a full stroke.

[c3] 3.A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following steps:
recording a present address of a disk corresponding to the pickup head module after seeking and accessing the disk;
calculating a return distance according to the present address and an initial address of the disk; and
moving the pickup head module for the return distance

in the direction from an outer ring to an inner ring of the disk.

- [c4] 4. The method of claim 3 wherein the pickup head module moves for the return distance when the disk is removed.
- [c5] 5. A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following steps: when power is provided to the optical disk drive, moving the pickup head module toward a spindle motor according to a gradually decreasing speed curve until the pickup head stops; recording a present address of a disk corresponding to the pickup head module after seeking and accessing the disk; calculating a return distance according to the present address and the initial address of the disk; and moving the pickup head module for the return distance toward the spindle motor.
- [c6] 6. The method of claim 5 wherein the maximum distance the pickup head is able to move according to the speed curve is a full stroke.
- [c7] 7. The method of claim 5 wherein the pickup head mod-

ule moves for the return distance when the disk is removed.